M.R.P. 1027
S.C. II/227
18th January, 1957

AIR MINISTRY

METEOROLOGICAL RESEARCH COMMITTEE

Proposed amendments for 1957/58 to Part II of the Programme of Investigations for 1956/57 (M.R.P. 967A)

Proposed amendments to problem items and priorities are listed below. The item numbers refer to M.R.P. 967A.

Item No.	Change proposed	Remarks
II.1.(b)	Delete	Effectively superseded by items under II.7.
II.1.(c)	Raise priority to PX	In view of possible applicability to forecasting for telephone weather services (WEA).
II.2.(b)	Raise priority to P1	Important to the forecasting of sea fog.
II.2.(d)	Delete P2. Amend Remarks column:- "Awaiting progress of items I.5.(b) and III.7.(b)"	
II.3.(a)	Add sub-item:-	
	(i) The distribution of showers over the British Isles in an unstable airstream in relation to the synoptic situation. P1	Important to operational forecasting.
II.3.(d)	Add sub-item:-	
	(i) Forecasting variations with time of a warm-front rain belt. P1	Important to operational forecasting.
II.3.(e)	Add sub-item:-	
	(i) The study of situations in which substantial falls of snow have occurred in different parts of the British Isles. P1	Important to operational forecasting.
II.4.(b)	Delete	Limited importance.
II.6.(b)	Add:- To include the frequencies of, and the synoptic situations associated with, dry spells over the British Isles in each month of the year, and the chances of persistence or breakdown after various intervals of time. Raise priority to PX	May be associated with II.13.(e). Important to operational forecasting.
II.6.	Add new section:-	
	(e) Modes of behaviour of the long-wave upper air pattern	Important to operational forecasting.
	(i) Rapid changes from zonal to meridional flow. P1	
	(ii) Breakdown of blocking situations. P1	

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Item No.	Change proposed	Remarks
	(iii) Relaxation and 'plunging' of thermal troughs; quantitative criteria to assist in forecasting downstream trough formation. PX	
	(iv) Breakaway of small troughs from long-wave troughs. PX	
II.7.	Add new sections:-	
	(j) Statistical study of surface developments following the appearance of specified thickness (or contour) patterns; e.g., frequency and magnitude of increases in intensity of depressions moving south-eastwards in a north-westerly thermal. PX	Important to operational forecasting.
	(k) Statistical study of upper air developments associated with the appearance of specific surface patterns; e.g., thickness patterns prior to the deepening of a depression by at least 20 mb in 24 hours. PX	Important to operational forecasting.
II.12.(b)	Delete	Immediate task completed. Geophysical Memoir being printed.
II.13.(a)	Add to the specification:- "and of certain major centres of population in particular, including synoptic aspects". Raise priority to P1	Important to telephone weather services (WEA).
II.13.(b)	Amend specification to read:- "Variation of intensity - duration - frequency distribution of heavy falls of rain"	To give more general cover (e.g., to include radar measurements).
II.13.(f)	Amend specification to read:- "Areal distribution of intense falls of rain"	
II.15.	Add new section:-	
	(e) Investigation into energy exchange between atmosphere and ocean. P2. (or, possibly, add as (a) to item II.9.)	